

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-017085**Date Inspected:** 26-Sep-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Liu Hua Jie**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder(OBG)**Summary of Items Observed:**

On this day CALTRANS OSM Quality Assurance (QA) Inspector Manoj Prabhune was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD**Segment # CB 13 FL-3**

This QA inspector observed, ZPMC qualified welding personnel identified as 040611 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SSD25-PP087-032; ZPMC CWI is identified as Mr. Li Yang. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-B-P-2212-B-U2-FCM-1.

Segment # 11AE**Repair Welding**

This QA inspector observed, ZPMC qualified welding personnel identified as 040458 perform Flux Core Arc Welding (FCAW), Build up Small Longitudinal Diaphragm. Longitudinal Diaphragm identified as LD15E; The Welding Repair Report (WRR) was B-WR15055.ZPMC QC is identified as Mr. Wang Li Yang. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-FCAW-2G (2F) Repair-1.See the attached Photo.

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Segment # 11AE

Repair Welding

This QA inspector observed, ZPMC qualified welding personnel identified as 040367 perform Flux Core Arc Welding (FCAW), Build up Small Longitudinal Diaphragm. Longitudinal Diaphragm identified as LD16E; The Welding Repair Report (WRR) was B-WR15055. ZPMC QC is identified as Mr. Wang Li Yang. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-FCAW-2G (2F) Repair-1.

Segment # 10CE

Base Metal Repair

This QA inspector observed, ZPMC qualified welding personnel identified as 202316 perform Shielded Metal Arc Welding (SMAW), weld joint identified as SEG063A-041; The Critical Welding Repair Report (CWRR) was B-CWR1835. ZPMC QC is identified as Mr. Wang Li Yang. The welding parameters measured using QC's calibrated instrument appeared to be in general compliance with WPS-345-SMAW-4G (4F) FCM-Repair-1. See the attached Photo.

Segment # 10BE ~ 10CE

During random visual inspection this Caltrans Quality Assurance (QA) inspector observed that American Bridge Fluor (ABF) Quality Assurance (QA) personnel had performed Ultrasonic Testing (UT) on Bottom Plate to Bottom Plate Transverse CJP Weld in OBG segment 10BE ~ 10CE.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

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This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang phone: 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Prabhune,Manoj	Quality Assurance Inspector
Reviewed By:	Patterson,Rodney	QA Reviewer
